

CLAIMS:

1. A method comprising:

sending, by a processor in a token requestor computer, a first token request to a token service computer, wherein the first token request includes a value credential and a first domain identifier,

wherein the token service computer identifies a value token associated with the value credential, wherein the value token is a substitute for the value credential, wherein the token service computer generates a first token code associated with the value token, wherein the token service computer assigns the value token and the first token code to the first domain identifier, such that the first token code is specific to a first domain associated with the first domain identifier;

receiving, by the processor in the token requestor computer, the value token and the first token code from the token service computer; and

providing using, by the processor in the token requestor computer, the value token and the first token code in place of the value credential for a first interaction, wherein the value token and the first token code are valid for the first interaction if they are being used within the first domain;

sending, by the processor in the token requestor computer, a second token request to the token service computer, wherein the second token request includes a second domain identifier and the value credential or the value token,

wherein the token service computer generates a second token code associated with the value token, wherein the second token code is different than the first token code, wherein the second token code and the first token code are both associated with the same value token, wherein the token service computer assigns the second token code to the second domain identifier, such that the second token

code is specific to a second domain associated with the second domain identifier,
wherein the first domain identifier is different than the second domain identifier, and
the first domain is different than the second domain;

receiving, by the processor in the token requestor computer, the
second token code from the token service computer; and

providing, by the processor in the token requestor computer, the value
token and the second token code in place of the value credential for a second
interaction, wherein the value token and the second token code are valid for the
second interaction if they are being used within the second domain.

2. — The method of claim 1, further comprising:

~~sending, by the processor in the token requestor computer, a second~~
~~token request to the token service computer, wherein the second token request~~
~~includes a second domain identifier and the value credential or the value token,~~

~~wherein the token service computer generates a second token code~~
~~associated with the value token, wherein the token service computer assigns the~~

~~second token code to the second domain identifier, such that the second token code is specific to a second domain associated with the second domain identifier;~~

~~receiving, by the processor in the token requestor computer, the second token code from the token service computer; and~~

~~using, by the processor in the token requestor computer, the value token and the second token code in place of the value credential for a second interaction, wherein the value token and the second token code are valid for the second interaction if they are being used within the second domain.~~

3.——The method of claim 1, wherein the processor in the token requestor computer is a first processor in a first token requestor computer, and further comprising:

~~sending, by a second processor in a second token requestor computer, a second token request to the token service computer, wherein the second token request includes the value credential and a second domain identifier, wherein the value credential in the second token request is the same as the value credential in the first token request,~~

~~wherein the token service computer identifies the value token associated with the value credential, wherein the token service computer generates a second token code associated with the value token, wherein the second token code is different than the first token code, wherein the second token code and the first token code are both associated with the same value token, wherein the token service computer assigns the value token and the second token code to the second domain identifier, such that the second token code is specific to a second domain associated with the second domain identifier, wherein the first domain identifier is different than~~

~~the second domain identifier, and wherein the first domain is different than the second domain;~~

~~receiving, by the second processor in the second token requestor computer, the value token and the second token code from the token service computer; and~~

~~using, by the second processor in the second token requestor computer, the value token and the second token code in place of the value credential for a second interaction, wherein the value token and the second token code are valid for the second interaction if they are being used within the second domain.~~

4. — The method of claim 1, further comprising:

~~sending, by the processor in the token requestor computer, a second token request to the token service computer, wherein the second token request includes a second value credential and a second domain identifier,~~

~~wherein the token service computer identifies a second value token associated with the second value credential, wherein the token service computer generates a second token code associated with the second value token, wherein the token service computer assigns the second value token and the second token code to the second domain identifier, such that the second token code is specific to a second domain associated with the second domain identifier;~~

~~receiving, by the processor in the token requestor computer, the second value token and the second token code from the token service computer; and~~

~~using, by the processor in the token requestor computer, the second value token and the second token code in place of the second value credential for a~~

~~second interaction, wherein the second value token and the second token code are valid for the second interaction if they are being used within the second domain.~~

25. The method of claim 1~~claim 2~~, wherein the first interaction is within the first domain and the second interaction is within the second domain.

36. The method of claim 1~~claim 2~~, wherein the first domain includes e-commerce interactions, wherein the second domain includes in-person interactions, wherein the value token and the first token code are valid for the first interaction if the first interaction is an e-commerce interaction, and wherein the value token and the second token code are valid for the second interaction if the second interaction is an in-person interaction.

47. The method of claim 1, wherein the token requestor computer is a mobile device, wherein the mobile device is associated with a user, wherein the value credential is associated with the user, wherein the first domain identifier is associated with the mobile device, and wherein the first domain includes transactions associated with the mobile device.

58. The method of claim 1~~claim 2~~, wherein the token requestor computer is a mobile device, wherein the mobile device is associated with a user, wherein the value credential is associated with the user, wherein the first domain includes interactions with a first merchant, wherein the first domain identifier includes a first merchant identifier, wherein the second domain includes interactions with a second merchant, and wherein the second domain identifier includes a second merchant identifier.

69. The method of claim 1, wherein the token requestor computer is a merchant computer, wherein the value credential is associated with a user, wherein the merchant computer stores the value token and the first token code on

behalf of the user, wherein the first domain identifier is associated with the merchant computer, and wherein the first domain includes transactions associated with the merchant computer.

740. The method of claim 1, further comprising:

generating, by the processor in the token requestor computer, an authorization request message for the first interaction, the authorization request message including the value token, the first token code, and the first domain identifier; and

sending, by the processor in the token requestor computer, the authorization request message to the token service computer,

wherein the token service computer determines that the value token and the first token code are assigned to the first domain identifier, wherein the token service computer identifies the value credential associated with the value token, and wherein the token service computer adds the value credential to the authorization request message and sends the authorization request message to an authorizing entity computer.

844. A token requestor computer comprising:

a processor; and

a non-transitory computer readable medium, the non-transitory computer readable medium comprising code, that when executed by the processor, implements a method comprising:

sending a first token request to a token service computer,

wherein the first token request includes a value credential and a first domain identifier,

wherein the token service computer identifies a value token associated with the value credential, wherein the value token is a substitute for the value credential, wherein the token service computer generates a first token code associated with the value token, wherein the token service computer assigns the value token and the first token code to the first domain identifier, such that the first token code is specific to a first domain associated with the first domain identifier;

receiving the value token and the first token code from the token service computer; and

using the value token and the first token code in place of the value credential for a first interaction, wherein the value token and the first token code are valid for the first interaction if they are being used within the first domain;

sending a second token request to the token service computer, wherein the second token request includes a second domain identifier and the value credential or the value token,

wherein the token service computer generates a second token code associated with the value token, wherein the second token code is different than the first token code, wherein the second token code and the first token code are both associated with the same value token, wherein the token service computer assigns the second token code to the second domain identifier, such that the second token code is specific to a second domain associated with the second domain identifier, wherein the first domain identifier is different than the second domain identifier, and the first domain is different than the second domain;

receiving the second token code from the token service computer; and

using the value token and the second token code in place of the value credential for a second interaction, wherein the value token and the second token code are valid for the second interaction if they are being used within the second domain.

12. ~~The token requestor computer of claim 11, further comprising:~~

~~sending a second token request to the token service computer, wherein the second token request includes a second domain identifier and the value credential or the value token;~~

~~wherein the token service computer generates a second token code associated with the value token, wherein the token service computer assigns the second token code to the second domain identifier, such that the second token code is specific to a second domain associated with the second domain identifier;~~

~~receiving the second token code from the token service computer; and~~

~~using the value token and the second token code in place of the value credential for a second interaction, wherein the value token and the second token~~

~~code are valid for the second interaction if they are being used within the second domain.~~

13.——~~The token requester computer of claim 11, wherein the processor in the token requester computer is a first processor in a first token requester computer, and further comprising:~~

~~sending a second token request to the token service computer, wherein the second token request includes the value credential and a second domain identifier, wherein the value credential in the second token request is the same as the value credential in the first token request,~~

~~wherein the token service computer identifies the value token associated with the value credential, wherein the token service computer generates a second token code associated with the value token, wherein the second token code is different than the first token code, wherein the second token code and the first token code are both associated with the same value token, wherein the token service computer assigns the value token and the second token code to the second domain identifier, such that the second token code is specific to a second domain associated with the second domain identifier, wherein the first domain identifier is different than the second domain identifier, and wherein the first domain is different than the second domain;~~

~~receiving the value token and the second token code from the token service computer; and~~

~~using the value token and the second token code in place of the value credential for a second interaction, wherein the value token and the second token code are valid for the second interaction if they are being used within the second domain.~~

~~14.~~ The token requestor computer of ~~claim 11~~, further comprising:

~~sending a second token request to the token service computer,
wherein the second token request includes a second value credential and a second
domain identifier,~~

~~wherein the token service computer identifies a second value token
associated with the second value credential, wherein the token service computer
generates a second token code associated with the second value token, wherein the
token service computer assigns the second value token and the second token code
to the second domain identifier, such that the second token code is specific to a
second domain associated with the second domain identifier;~~

~~receiving the second value token and the second token code from the
token service computer; and~~

~~using the second value token and the second token code in place of
the second value credential for a second interaction, wherein the second value token
and the second token code are valid for the second interaction if they are being used
within the second domain.~~

915. The token requestor computer of ~~claim 12~~claim 8, wherein the
first domain includes a contactless entry mode and wherein the second domain
includes magnetic stripe entry mode.

1016. The token requestor computer of ~~claim 11~~claim 8, wherein the
token requestor computer is a merchant computer, wherein the value credential is
associated with a user, wherein the merchant computer stores the value token and
the first token code on behalf of the user, wherein the first domain identifier is
associated with the merchant computer, and wherein the first domain includes

transactions associated with the merchant computer, wherein the first domain identifier includes a merchant identifier associated with the merchant computer, and wherein the value token is valid for the first interaction if the value token is accompanied by the merchant identifier.

11~~17~~. The method of claim 1, wherein the value credential is a first sixteen digit payment account number, and the value token is a second sixteen digit number.

12~~18~~. The method of claim 1~~claim 2~~, further comprising:

storing, by the processor in the token requestor computer, the value token and the first token code;

retrieving, by the processor in the token requestor computer, the value token and the first token code for a third interaction;

providing, by the processor in the token requestor computer, the value token and the first token code in place of the value credential for the third interaction, wherein the value token and the first token code are valid for the third interaction if they are being used within the first domain;

storing, by the processor in the token requestor computer, the second token code;

retrieving, by the processor in the token requestor computer, the value token and the second token code for a fourth interaction; and

providing, by the processor in the token requestor computer, the value token and the second token code in place of the value credential for the fourth interaction, wherein the value token and the second token code are valid for the fourth interaction if they are being used within the second domain.

1319. The method of claim 1~~claim 2~~, wherein the second token request includes the value credential, and wherein the token service computer identifies the value token associated with the value credential in response to receiving the value credential in the second token request.

1420. The method of claim 1, wherein the value token is usable for obtaining transaction authorization in place of the value credential.